1 CLAIMS

- 2 I claim:
- 3 1. An isolated polynucleotide molecule encoding a heavy chain variable
- 4 domain of antibody B2G4, said polynucleotide molecule comprising nucleotides 1 to 378
- 5 of SEQ ID NO:8.
- 6 2. An isolated polynucleotide molecule encoding a light chain variable
- 7 domain of antibody B2G4, said polynucleotide molecule comprising nucleotides 1 to 372
- 8 of SEQ ID NO:9.
- 9 3. An isolated polynucleotide molecule encoding an antibody-binding
- 10 fragment, said antibody-binding fragment comprising at least one heavy chain variable
- domain encoded by the polynucleotide set forth in SEQ ID NO:8 and at least one light
- chain variable domain encoded by the polynucleotide set forth in SEQ ID NO:9.
- 13 4. The isolated polynucleotide molecule according to claim 3, wherein said
- 14 antibody-binding fragment is an scFV fragment.
- 15 5. The isolated polynucleotide molecule according to claim 3, wherein said
- antibody-binding fragment is a diabody.
- 17 6. The isolated polynucleotide molecule according to claim 3, wherein the
- antibody-binding fragment is a triabody.
- 7. An antibody or antibody-binding fragment, wherein said heavy chain
- 20 comprises an amino acid sequence having at least 95% sequence identity to an amino
- 21 acid sequence encoded by nucleotides 1 to 378 of SEQ ID NO:8, and wherein said
- antibody or antibody-binding fragment specifically binds the peptide of SEQ ID NO:4.

- 1 8. The antibody or antibody-binding fragment of claim 7, wherein said heavy
- 2 chain comprises an amino acid sequence encoded by nucleotides 1 to 378 of
- 3 SEQ ID NO:8, and wherein said antibody or antibody-binding fragment specifically
- 4 binds the peptide of SEQ ID NO:4.
- 5 9. An antibody or antibody-binding fragment, wherein said light chain
- 6 comprises an amino acid sequence having at least 95% sequence identity to an amino
- 7 acid sequence encoded by nucleotides 1 to 372 of SEQ ID NO:9, and wherein said
- 8 antibody or antibody-binding fragment specifically binds the peptide of SEQ ID NO:4.
- 9 10. The antibody or antibody-binding fragment of claim 9, wherein said light
- 10 chain comprises an amino acid sequence encoded by nucleotides 1 to 372 of
- 11 SEQ ID NO:9, and wherein said antibody or antibody-binding fragment specifically
- binds the peptide of SEQ ID NO:4.

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- 13 11. An antibody or antibody-binding fragment comprising at least one heavy
- 14 chain and at least one light chain, wherein said heavy chain comprises an amino acid
- sequence having at least 95% sequence identity to an amino acid sequence encoded by
- nucleotides 1 to 378 of SEQ ID NO:8, and wherein said light chain comprises an amino
- acid sequence having at least 95% sequence identity to an amino acid sequence encoded
- by nucleotides 1 to 372 of SEQ ID NO:9, and wherein said antibody or antibody-binding
- fragment specifically binds the peptide of SEQ ID NO:4.
- 20 12. The antibody or antibody-binding fragment of claim 11, wherein said
 - heavy chain comprises an amino acid sequence encoded by nucleotides 1 to 378 of
- SEQ ID NO:8, and wherein said light chain comprises an amino acid sequence encoded

- by nucleotides 1 to 372 of SEQ ID NO:9, and wherein said antibody or antibody-binding
- 2 fragment specifically binds the peptide of SEQ ID NO:4.
- 3 13. The antibody or antibody-binding fragment according to claim 7, wherein
- 4 said antibody-binding fragment is an scFV fragment.
- 5 14. The antibody or antibody-binding fragment according to claim 9, wherein
- 6 said antibody-binding fragment is an scFV fragment.
- 7 15. The antibody or antibody-binding fragment according to claim 11,
- 8 wherein said antibody-binding fragment is an scFV fragment.
- 9 16. The antibody or antibody-binding fragment according to claim 11,
- wherein said antibody-binding fragment is a diabody.
- 11 17. The antibody or antibody-binding fragment according to claim 11,
- wherein the antibody-binding fragment is a triabody...
- 13 18. A pharmaceutical composition comprising the antibody or antibody-
- binding fragment of claim 7, and a pharmaceutically acceptable carrier.
- 15 19. A pharmaceutical composition comprising the antibody or antibody-
- binding fragment of claim 9, and a pharmaceutically acceptable carrier.
- 17 20. A pharmaceutical composition comprising the antibody or antibody-
- binding fragment of claim 11, and a pharmaceutically acceptable carrier.